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Activity 1 – Database Relationships Questions

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The Vehicle Rental Company

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Task Scenario

You have been asked to create a database for the East Berkshire Vehicle Rental Company

Currently all records are stored on a spreadsheet

The Company would like to be able to store information about their Rentals, Customers and Vehicles.

The Company would like to be able to report on how their cars are Hired.

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Task Scenario

The database will record information about:

Customers and Customer Types.

Vehicles.

Rental Data.

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Task Scenario

- Cars can be Petrol, Hybrid or Electric.
- The company wants the flexibility to add new cars and customers at a later date.
- Customers can on a Platinum, Gold or Standard discount model.
- Each discount allows a different percent discount.
- If a vehicle rental does not have a return date, that means the customer still has the vehicle out for hire.
- Hire costs are for each full day of hire.

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The Data

Vehicle ID	Vehicle Type	Vehicle Make	Hire Cost	Customer ID	Customer Name	Customer Postcode	Discount ID	Discount Type	Discount	Date Hired	Date Returned
1	Petrol	Ford	£75	1	Smith	RG47BP	1	Platinum	25%	20/09/2020	24/09/2020

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Step 1 – Identify The Primary Keys

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Step 1 – Identify the Primary Keys

- What can we see from the supplied data?
- There is a VehicleID
-
-
-

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Step 1 – Identify the Primary Keys

THESE MUST BE PRIMARY KEYS

THAT MEANS WE HAVE **AT LEAST 3** TABLES

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Step 1 – Identify the Primary Keys

Primary Key	Table
VehicleID	tblVehicle

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Step 2 – Are There Any Other Tables Needed?

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Step 2 – Are there Any other tables needed?

- You must use the columns and data given to you.
- There are 3 primary keys.
- And so there are AT LEAST 3 tables.
- You must not create any new columns.
- You must not create any new keys.

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Step 3 – What Are The Relationships?

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Step 3 - What Are The Relationships

Table	Relationship
A vehicle can be rented many times	One to many
Each rental contains one vehicle	

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Glossary of Terms

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Glossary – Relational Database 1

Key Term	Definition
Attribute	Another name for a Column (or Field) in a Table in a Database.
Cardinality	A measure of how unique values within a column are. A Primary Key column would have High Cardinality, an ‘IsStudent’ column would have Low Cardinality.
Domain	
Entity	
Relation	
Relational Database	
Tuple	

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